





10 Innovative Trail Practices for Development and Deployment





Trail Program

Yves Zsutty Trail Network Manager

# Objective



# Approach

Infrastructure Communications Public safety Aesthetic design



Situation Challenge Research & Development Innovation

## Why innovate?

More competitive for internal funds and grants

Responsibility to the public and the practice

Pursue your best possible work

### Culture

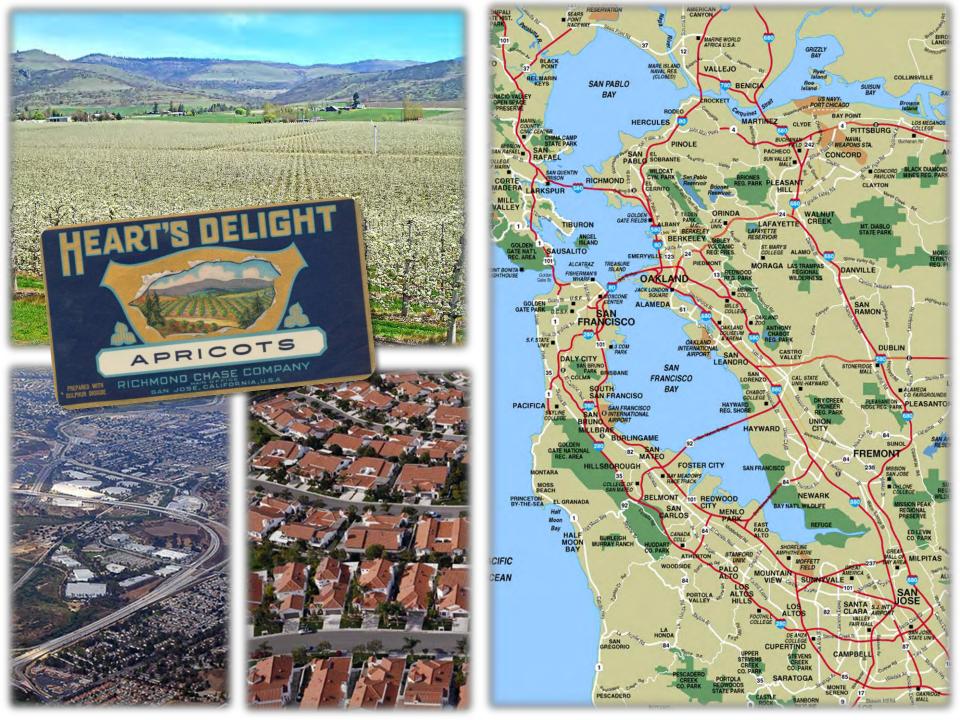






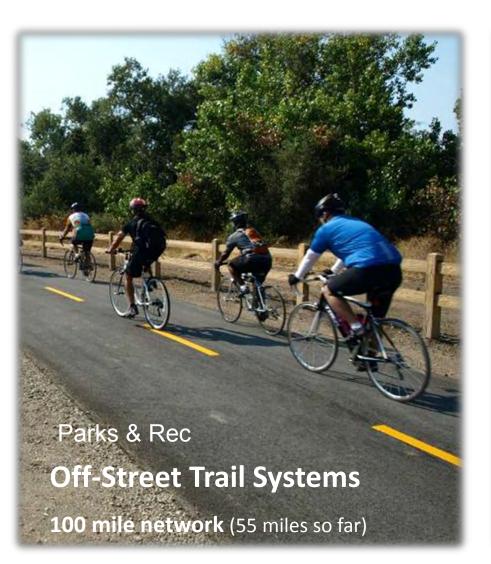


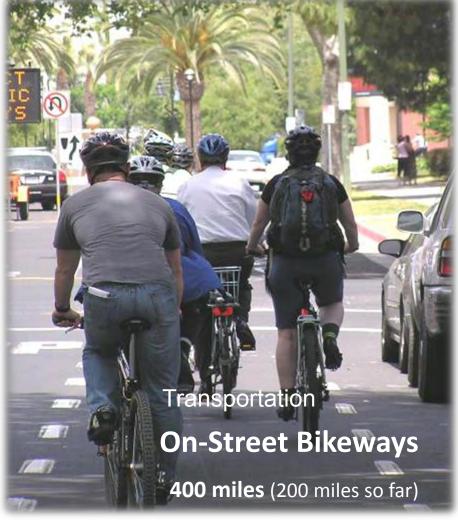






## Vision for City: Green Vision's Bike Web



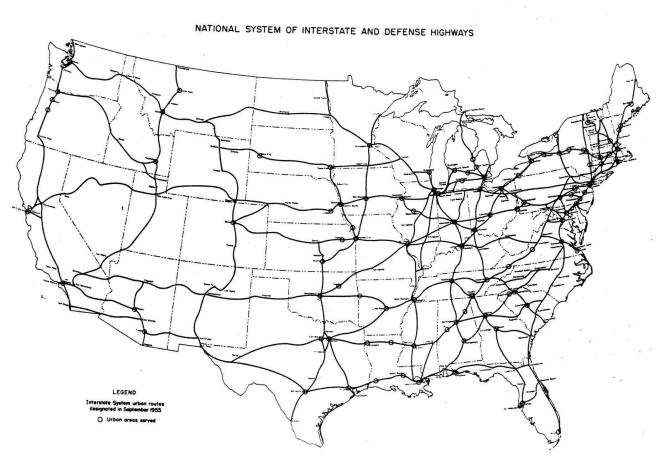


### Vision for Trail Program:

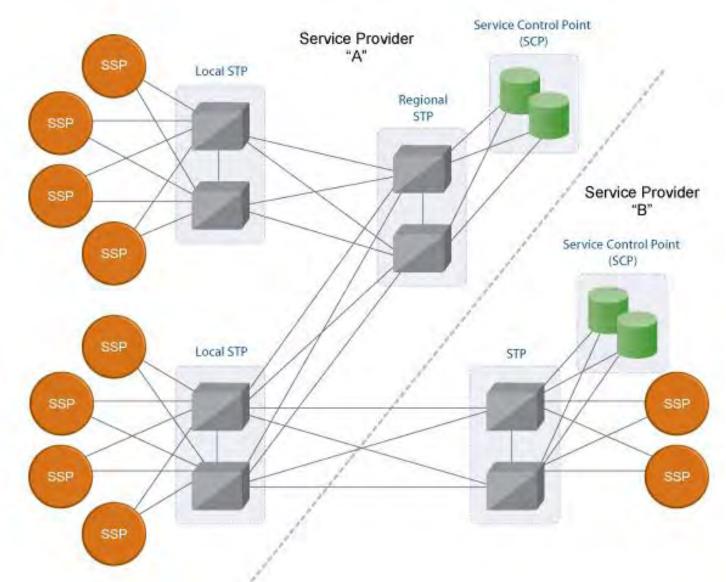
National leader for trail integration in the urban environment



### Innovation #1: Interconnected Network



Trails as **Transportation** 



Trails as Connected Network

#### 1 Network

#### 35 Trail Systems

- 24 Core Systems
- 11 Edge Systems

#### 250 Reaches



# At ground level

















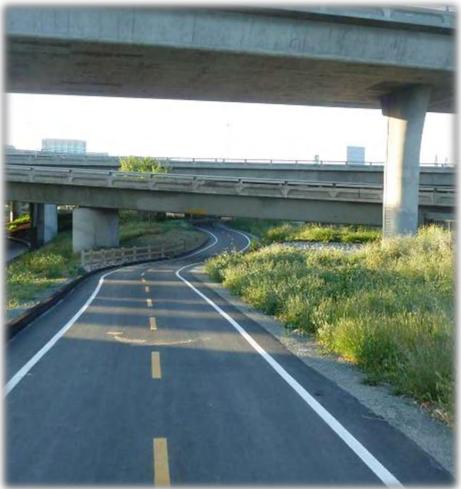








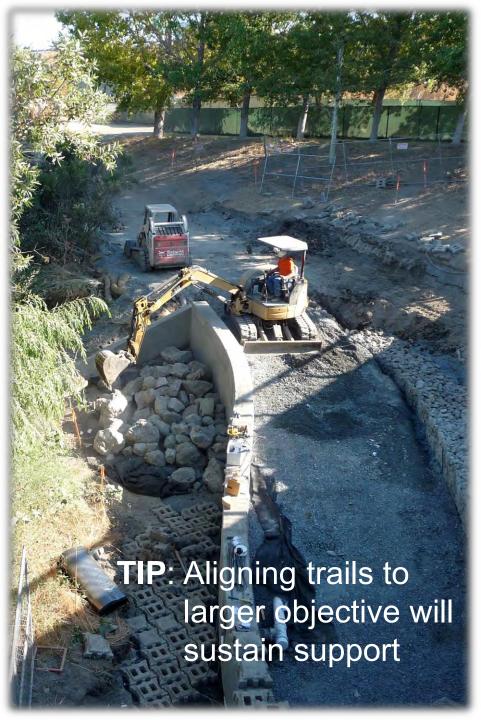
















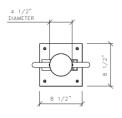
# Innovation #2: The Bollard



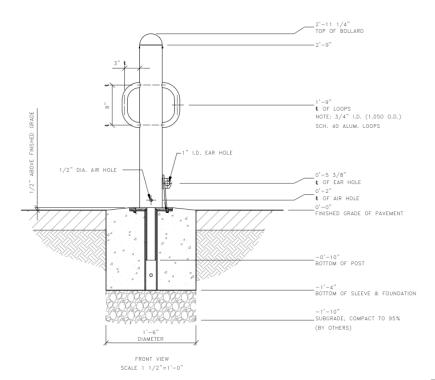


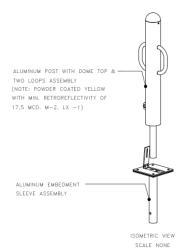


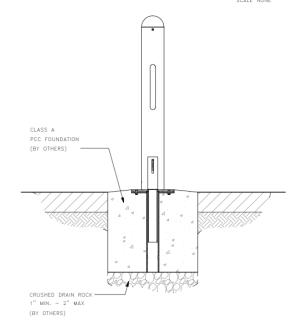




TOP VIEW SCALE 1 1/2"=1'-0"







SIDE VIEW SCALE 1 1/2"=1'-0"

Cotate Revision By  A  A			Timberform —2 and Cycloops Products.  13D S.W. Sith. Avenue, Sally 310 Telephone 503/723-1157 Partiand, Oregon 9/201-3464 Facsimile 503/723-4530 U.S.A.	MODEL NO. 2190-RH-M REMOVABLE BOLLARD	
Scale	Drawn by: DG	00-09-11		Drawing No.	Sheet
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NOTE: CONCRETE FOOTING AND NO. 4 REBAR (BY OTHERS) PER LOCAL SOIL CONDITIONS. CONSULT PROJECT ENGINEER FOR EXACT REQUIREMENTS.





#### **Columbia Cascade Company**

Makers of TimberForm\* & PipeLine\* Playground Equipment and Outdoor Fitness Systems, TimberForm Site Furniture and CycLoops\* & CycLocker\* Bicycle Management Products.

1300 S.W. Sixth Avenue, Suite 310 Portland, Oregon 97201-3464, U.S.A. See more at www.timberform.com Telephone 503/223-1157 Facsimile 503/223-4530 E-mail HQ@timberform.com

This drawing reveals the copyrighted intellectual property of Columbia Cascade Company U.S.A. Not for use by others without our express, written authorization.

Title

TimberForm No. 2190-RH-M Removable Bollard with Hasp/Hole Cover City of San Jose San Jose, CA

Park Pacific, Inc. - Walnut Creek, CA

Drawn by: Date: Rev. by: Date: S



# Innovation #3: Striping



















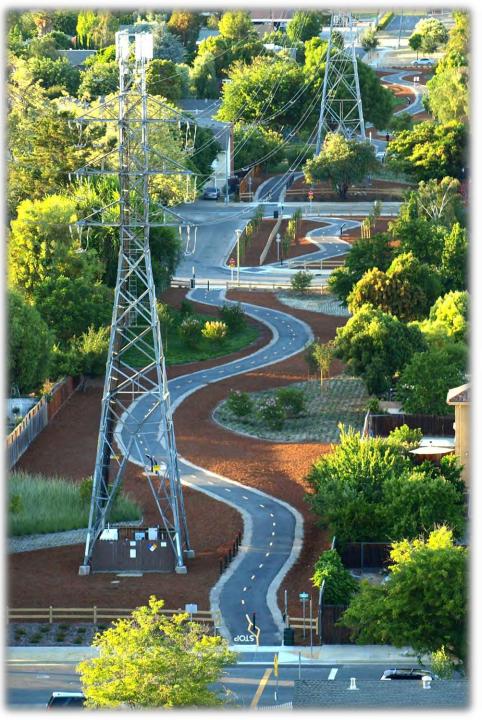


## Innovation #4: Pavement



# Studies / Tests

- Recycled base rock
- Recycled asphalt
- Warm-mix asphalt





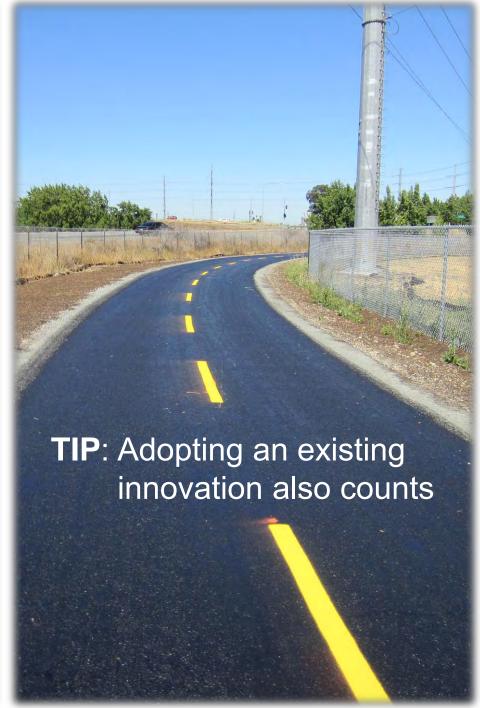












## Innovation #5: Gather Data









#### **Guadalupe River Trail**

- **3 Count Stations**
- Coleman Avenue 719
- 2. River Oaks Parkway **1,127** (7 hours)
- 3. San Fernando Street 899

**1,500** daily users along Los Gatos Creek and Los Alamitos Creek Trails

## Guadalupe River Trail Coleman Avenue Station

Year	Count
2007	243
2008	420
2009	531
2010	561
2011	593
2012	613
2013	719

**46.7%** increase at San Fernando Count Station



53%

Commuters









**TIP**: Your data is important to other agencies





## Innovation #6: Communications



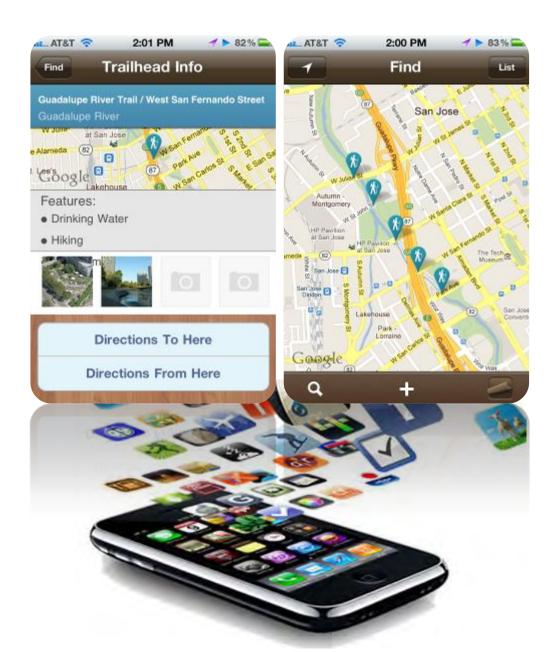








### **Transit & Trails**







North

#### GUADALUPE RIVER TRAIL

**PLAZA** 

1.8 mi

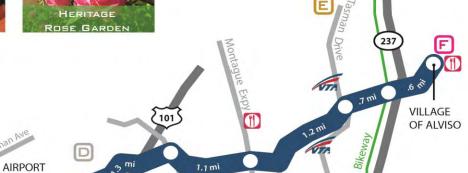




















**GUADALUPE** 

RIVER PARK

VISITOR'S CTR



1.1 miles







Information







Parks, Recreation & Neighborhood Services

Questions & Concerns

Awards & Recognition

Trail Systems

Hours & Rules

Tips

Reports

Education

Tourism Volunteerism

Links

Network

Home > Government > Departments & Offices > Departments & Offices P-Z > Parks, Recreation & Neighborhood Services > Outdoor Fun > Trail

San Jose Trail Network



#### Saturday, April 12: The Leukemia & Lymphoma Society - Marthon Training

**News & Announcements** 

San Jose's Summer Camp Festival on May 17

Guadalupe River Trail to

remain open between Woz

Way and San Carlos Street. Festival event in Discovery

Meadow. Enjoy a variety of activities, DJ and guest speakers. 18 booths offering

snacks, Face Painting, Arts

and Crafts and program demonstrations. Read on...

Trail remains open on April 12. About 50 participants are expected to participate in a special event scheduled at Greystone Park, Los Alamitos Creek Trail, Almaden Lake





# Local and National news









**TIP**: Be the best source for trail-focused content



# Innovation #7: Public Safety





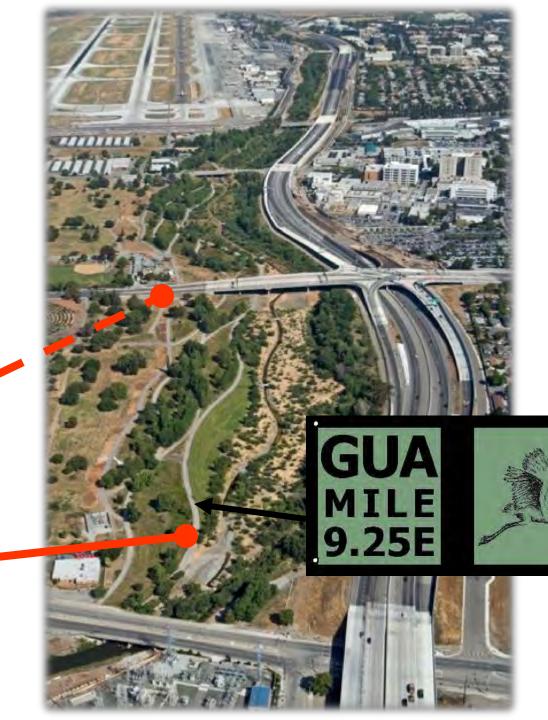






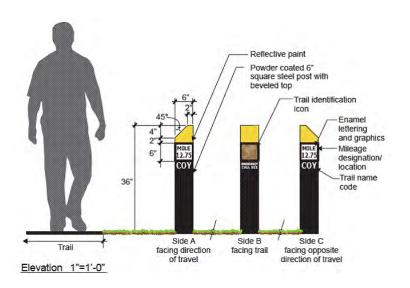


















# Innovation #8: Play









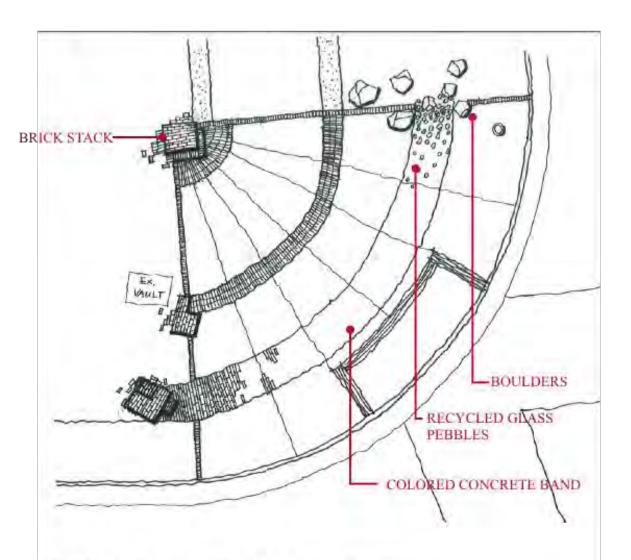






# Innovation #9: Placemaking







COYOTE CREEK TRAIL (STORY- SELMA OLINDER)

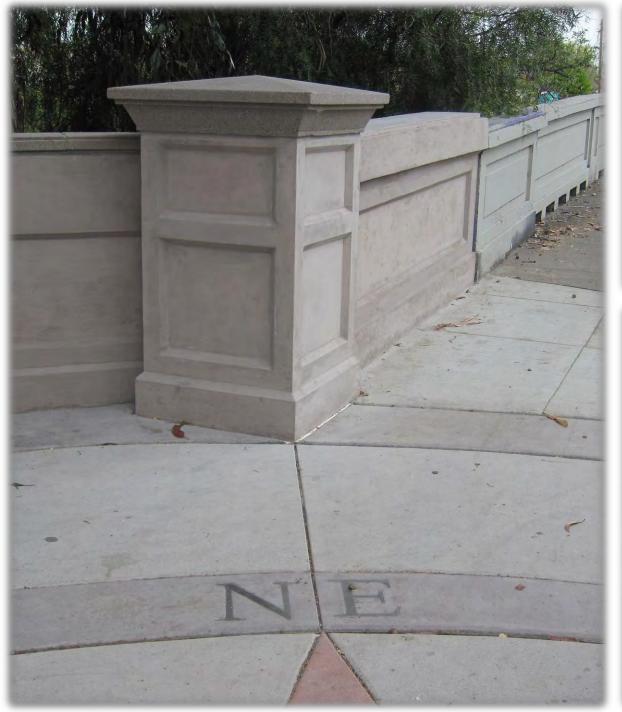




















#### PLAN FOR LOS GATOS CREEK REPLACEMENT JULY 24/3 (REMSED) SAN JOSE · CAL.



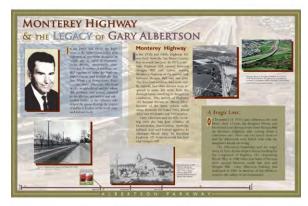




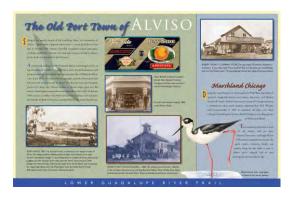
## Innovation #10: Art / Interpretation

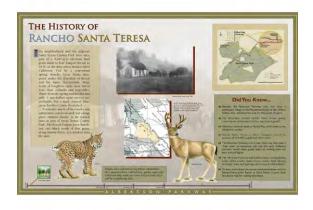


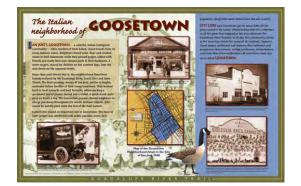


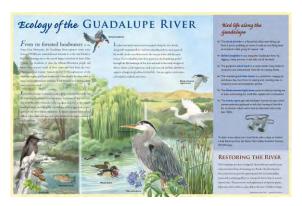




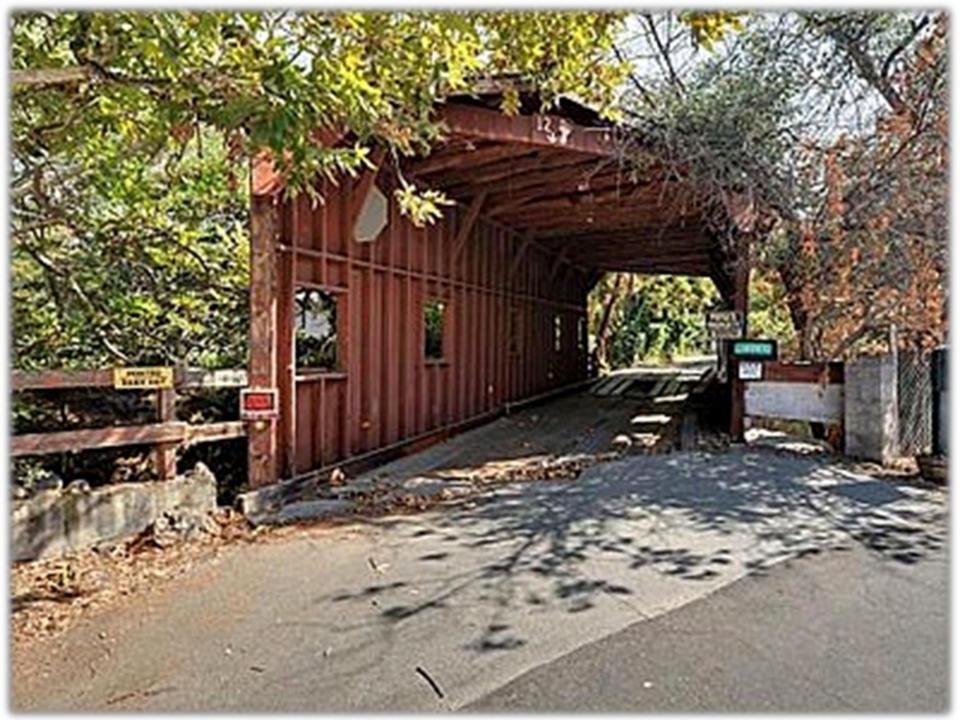












## JOURNEY INTO ALUM ROCK PARK



ABOVE: Narrow gauge railway car in Alum Rock Park. Electric trains of the San Jose and Santa Clara Railway Company were a popular way to reach the park before automobiles became comon.

BELOW: Natatorium at Alum Rock Park. A natatorium is a large indoor swimming pool. The buildings were dismantled when they became overused





Horses and buggies at Alum Rock Park about 1908



An early automobile arriving at the park in 1909

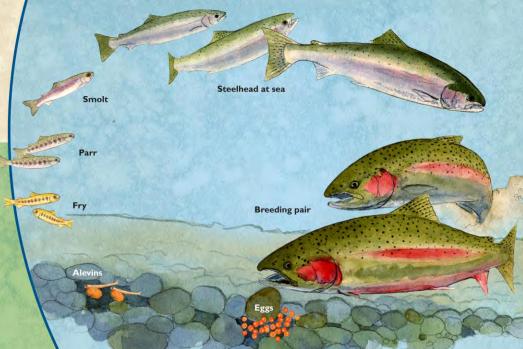


Mineral springs fountain on the left, and womens bath house on the right

#### Return of the Steelhead Trout

**F**lowing through Alum Rock Park to join with Coyote Creek, Upper Penitencia Creek is an essential waterway and an important habitat for the threatened steelhead trout (Oncorhynchus mykiss).

Steelhead trout journey into Upper Penitencia Creek between winter and spring to mate and spawn after spending two to three years in the open ocean. The silvery speckled females prepare nests on the creek's clean gravel bottom. Steelhead spawn in fast flowing streams that are well oxygenated, relatively silt free and shaded by trees. With ideal conditions, the eggs hatch in about a month. Efforts are being made to increase the steelhead trout populations along Upper Penitencia Creek by removing man-made barriers, maintaining and enhancing the tree canopy and reducing sedimentation and erosion in the waterway. The trail's unique boardwalk preserves the sycamore trees with their large and cooling canopies, which shade the water for the steelhead.

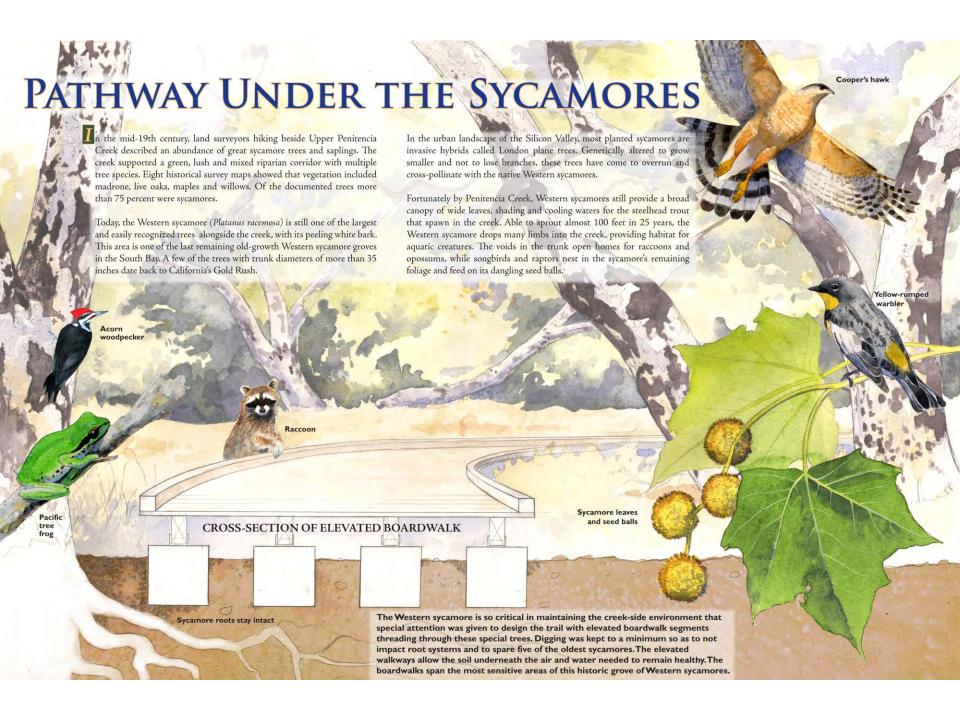


### Rustic Retreat to Grand Resort

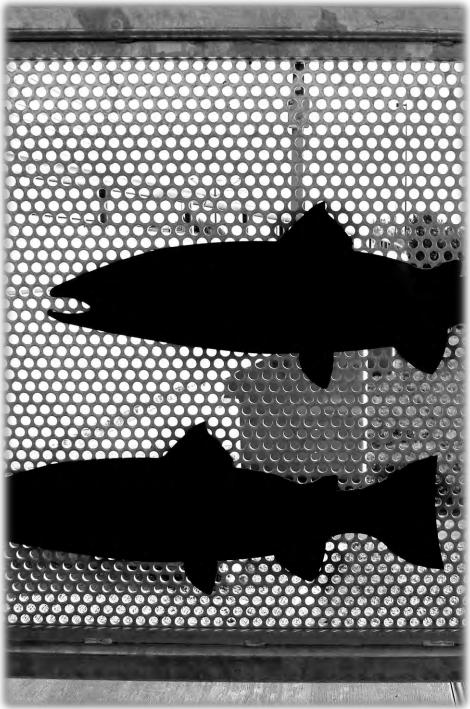
ounded in 1872, Alum Rock Park was California's first city park. The Native Americans had named the creek running down the canyon *shistuk*, or place of rabbits. In the 1890s, a steam-powered, narrow-gauge train transported visitors into the park with its dance pavilion, restaurant, outdoor plunge, bathing grottos and more than two dozen mineral hot springs. Around the turn of the century, an electric train and then a standard-gauge locomotive replaced the small steam engine as the park's character changed from rustic retreat to a large-scale grand resort with an added exotic zoo, aviary and indoor swimming pool.

The Great Depression and the growing popularity of the automobile transportation doomed the resort's train. People, however, kept flooding into the park. A record was set on Easter in 1935 when 4,400 cars were counted entering the grounds. The park draws visitors to its abundant natural beauty today.



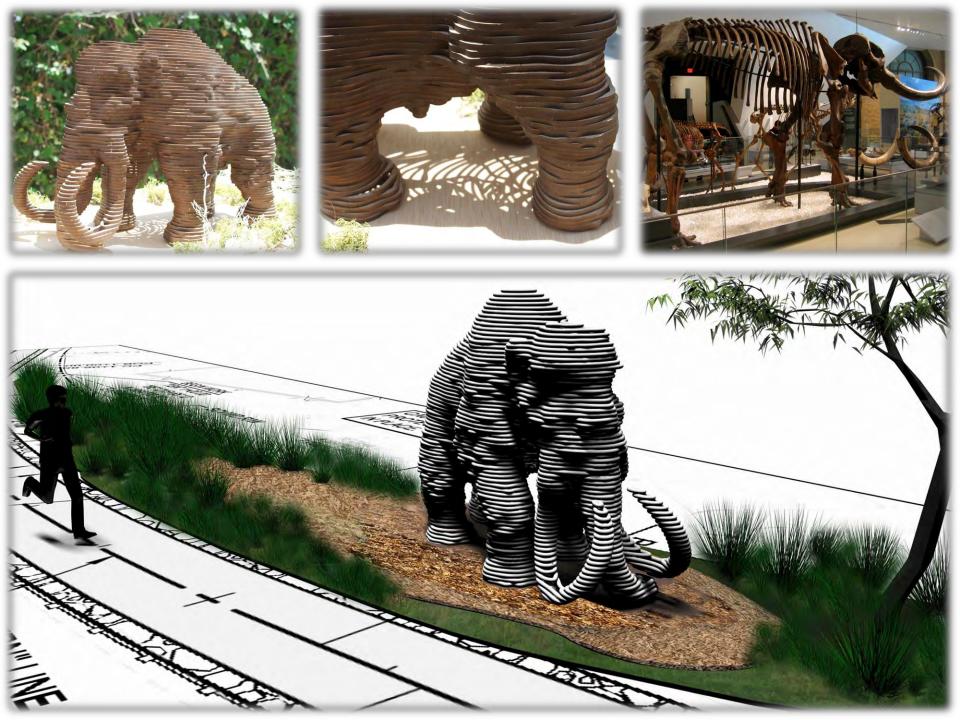










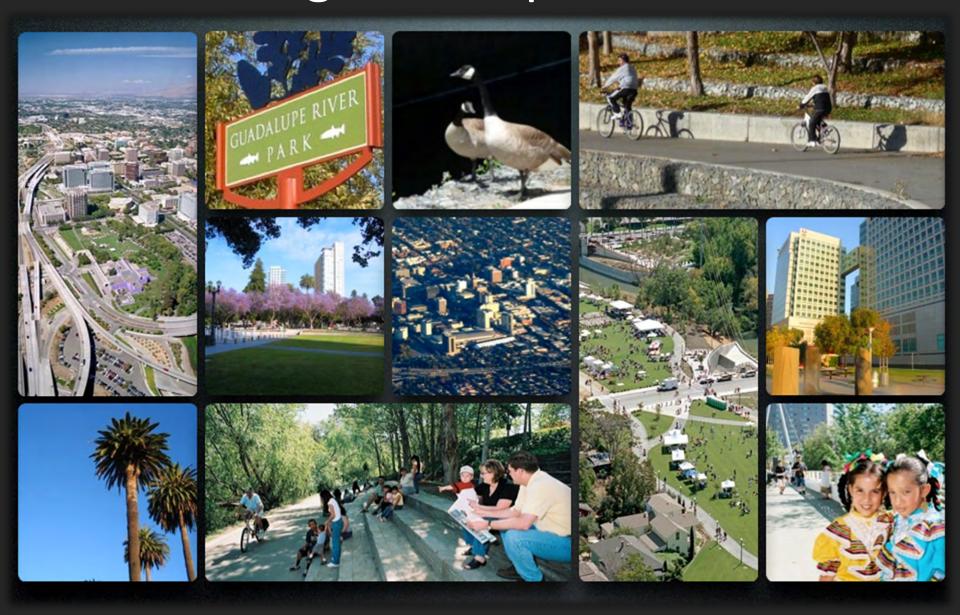








# Final Thought: Accept More





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